

Collaborative Grid Planning for Implementing the Paris Agreement

BACKGROUND

Scenarios for Ten Year Network Development Plans (TYNDPs) of electricity and gas are used to understand what are possible pathways to reach European energy targets and define necessary investments including energy infrastructure. Every two years the European Network of Transmission System Operators for Electricity (ENTSO-E) and Gas (ENTSOG) develop joint storylines together with stakeholders and build on this basis the TYNDPs which in turn form the basis for the selection of the European Projects of Common Interest (PCIs). The 2018 TYNDP includes 3 possible scenarios of the future of electricity and gas in Europe. These are all compliant with the current 2030 EU emission and renewables targets. Currently efforts are being put in place by the ENTSOs to include in one of the scenarios the carbon reduction required to reach the Paris Agreement. The scenario-building for TYNDPs is a unique process, engaging numerous stakeholders and aiming at directly informing policymakers and regulators on energy system needs.

PROJECT GOAL

The ENTSOs have initiated a project together with the Renewables Grid Initiative (RGI) that aims at maximising NGO input in the scenarios in order to have at least one of the scenarios used in the TYNDP compliant with the Paris Agreement. The project's ambition is to have such a scenario developed in a collaborative way with strong engagement from the NGO community.

The two European environmental umbrella NGOs Climate Action Network (CAN) Europe and European Environmental Bureau (EEB) will systematically provide feedback to the ENTSOs' TYNDP consultation process. RGI will reach out to the broad energy sector and gather input and support for the scenario development efforts. Through this, the process also provides an excellent opportunity for interested stakeholders to learn about the modelling process and techniques.



THE SCENARIO-BUILDING PROCESS



1. Creation of a coherent world with a set of assumptions

2. Number-crunching for every aspect of the storyline

3. Storylines are turned into quantified results

A COLLABORATIVE APPROACH

The project brings together different stakeholders to exchange insights, provide detailed input and shape scenarios within the scenario-building process. Two workshop series form the backbone of the project: the first aims at co-creating storylines that are compliant with the European commitments under the Paris Agreement, the second aims at challenging the ENTSOs on their modelling process.

This project will potentially inform and inspire interested onlookers worldwide.

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